

Takayuki ABE, S.N. 10/517,102  
Page 2.

Dkt. 1141/73569

**Amendments to the Specification**

Please amend the paragraphs at page 2, line 17 through page 3, line 14, in the following manner:

Disclosure of the invention

~~An object of the present invention is~~ This disclosure includes an approach to ascertain the timing for beginning an actual measurement (substantial measurement) after injection of a contrast agent when blood vessel imaging is performed in an MRI apparatus.

~~In order to attain the above mentioned object, the present invention provides:~~

[[A]] In an aspect of this disclosure, there is provided a magnetic resonance imaging apparatus comprising an imaging means for applying high-frequency magnetic fields and gradient magnetic fields to an object to be placed in a static magnetic field in accordance with a pulse sequence of dynamic measurement for continuously obtaining a plurality of time-series images and for measuring NMR signals emitted from the object to be examined, a signal processing means for forming images of a desired tissue of the object to be examined from the NMR signals, a display means for displaying the images and a control means for controlling the imaging means and the signal processing means, wherein the imaging means is provided with a monitoring mode in which a desired slab of the object to be examined is measured using a pulse sequence for the dynamic measurement under a condition of applying gradient magnetic fields with a low spatial resolution and a substantial measurement mode in which the same slab is measured using the same pulse sequence under a condition of applying gradient magnetic fields with a high spatial resolution, the control means has a mode switching means for switching from the monitoring mode to the substantial measurement mode and the switching means switches the monitoring mode to the substantial measurement mode with desired timing during the monitoring mode is performed.